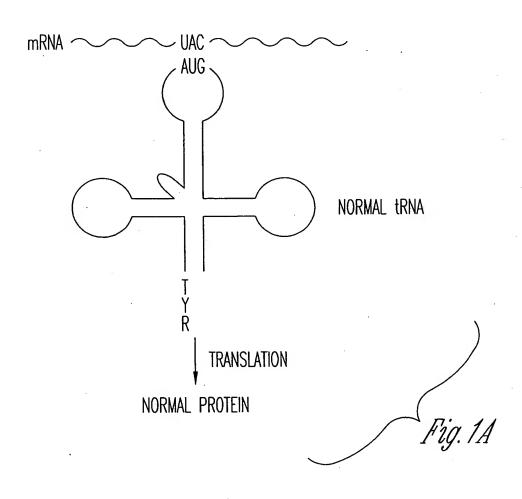
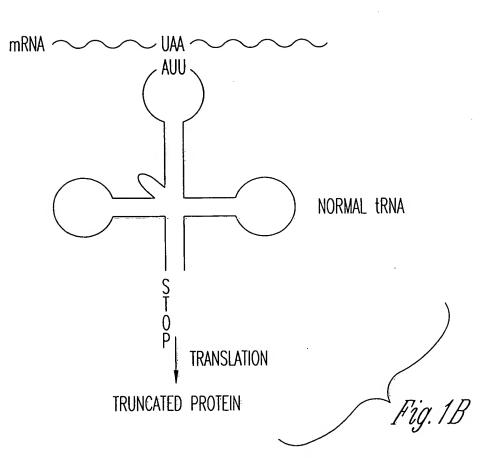
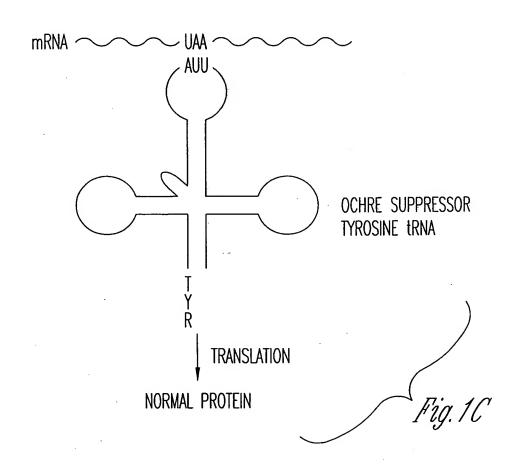
NORMAL mRNA



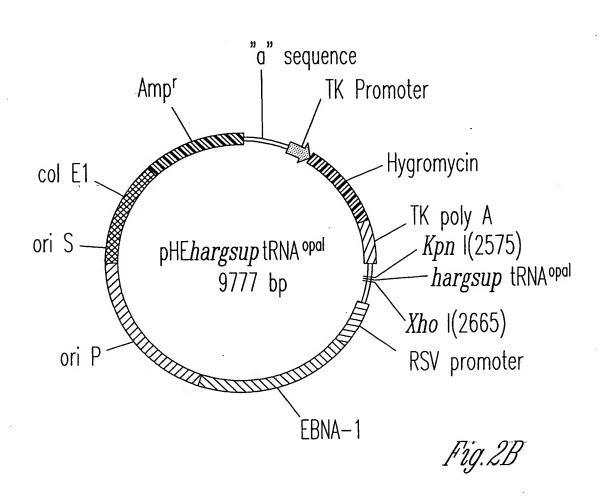
MUTANT mRNA WITH NONSENSE OCHRE MUTATION

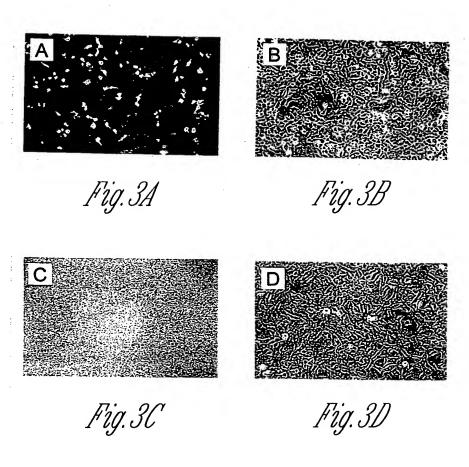


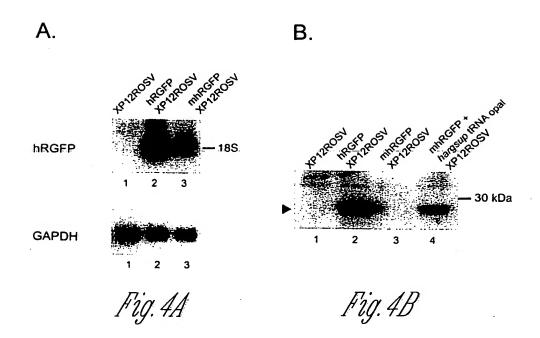
MUTANT mRNA WITH NONSENSE OCHRE MUTATION

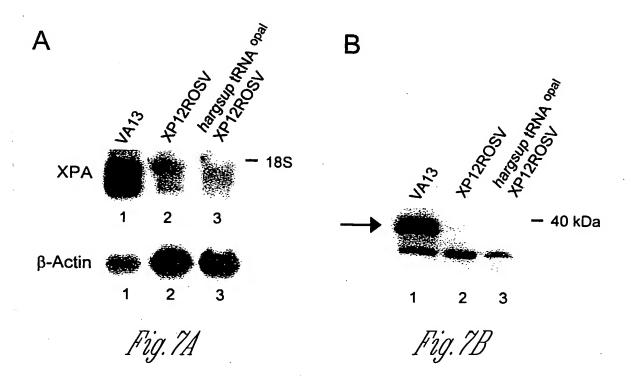


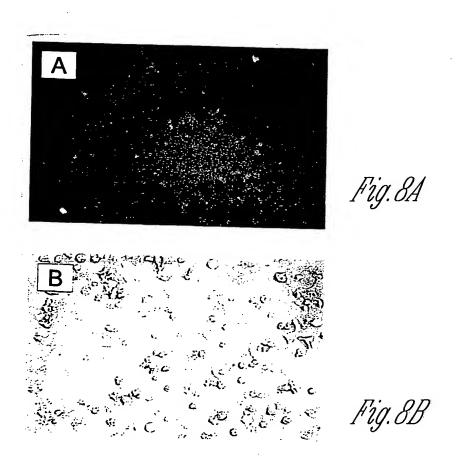
P03357US2 Panchal et al.
Continuation of 09/229,212
HUMAN SUPPRESSOR tRNA
OLIGONUCLEOTIDES AND
METHODS OF USE FOR SAME
Sheet 3 of 10











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# Human Opal/Amber Suppressor Ser tRNA (del CCA at the 3' end)

#### pHE 850

#### Human opal suppressor serine tRNA (using oligos RgP 24/25)

- 5' gege<u>ggtacc</u>agtaaaaaaggac<u>ggta</u>gtcggcaggattcgaacctgcggggagaccccaatggatt<u>tga</u>agtccatcgccttaaccactcggcaccaactac<mark>cagctg</mark>gcgc
- 3' cgcg<u>ccatgg</u>tcatititicgtgc<u>gccat</u>cagccgtcctaagcttggacgcccctctggggttacctaa<u>act</u>tcaggtagcggaattggtgaggcggtgctgatggtgacg Pvu II

## Human amber suppressor serine tRNA (using oligos RgP 18/4)

- 5' gege<u>ctecha</u>agtaaaaaaacagg<u>egta</u>gteggeaggattegaactgeggggggggagaccccaatggatt<u>tag</u>agtecategcettaaccacteggeeceactacggege
- 3' egeg**GAGCIC**TCATITITICGIGGGCAICAGCCGICCIAAGCIIGGACGCGCCCCTCIGGGGIIACCIAA<u>AIC</u>ICAGGIAGCGGAAIIGGIGAGCCGGIGCIGAIG<mark>CCAIGG</mark>CGGCG Xho I

## Human ochre suppressor serine tRNA (using oligos RgP 73/74)

- 5' gege**GCIAGC**AGIAAAAAAGCACGC<u>CGIA</u>GICGGCAGGAITCGAACCIGCGGGGGGAGACCCCAAIGGAIT<u>IAA</u>AGICCAICGCCITAACCACICGGCACGACIAC<mark>CICGAG</mark>gege
- 3' cgcgCGAICGICATITITICGIGCGCCAICAGCCGICCIAAGCIIGGACGCCCCCTCIGGGGIIACCIAAAIIITCAGGIAGCGGAAIIGGIGAGCCGGIGCIGAIGGAAGCIC Nhe I

Ochre Serine

Amber Serine

Opal Serine

419.9

# Human Opal/Amber Suppressor Ser tRNA (del CCA at the 3' end)

pHE 850

#### Human opal suppressor serine tRNA (using oligos RgP24/25)

- 5' gege<u>ggtaac</u>agtaaaaaaaggacg<u>ccta</u>gtcggcaggattcgaacctgcggggggaccccaatggatt<u>tga</u>agtccatcgccttaaccactcggccaccagcg
- 3' egeg<u>carige</u>tcatititicgigc<u>gcar</u>cagccgiccidagcgcccccccccccrcgggctracciaa<u>aci</u>tcaggragcggaatiggigagccggrgtcarggicaac Pvu II

#### Human amber suppressor serine tRNA (using oligos 18/4)

- 5º gege<u>cterra</u>rgtarararacacce<u>ctr</u>gtcgccaggattcgarctgcggggggggggcccaatggatt<u>tag</u>agtccatggccttaaccactcggccacgatacc
- 3' cgcg<u>gaactic</u>tcattttttcgtgc<u>gccat</u>cagccgtcctaagcttggacgcccctctggggttacctaaarctcaggtagcggaattggtgagccggtgctgatg<u>ccarg</u>cgcg Xho I

Amber Serine

Opal Serine

Fig. 10

Fig. 11

Fig. 12

C A\* Fig. 13 G T T C C C T A A G G G G T T C  $\begin{smallmatrix} T & A & A & T & C & C & G & G \\ G & & & I & I & I & I & I \\ A & T & A & G & G & C & G \\ \end{smallmatrix}$ A — T
C
A
T
T
C
A
\*

Fig. 14